



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 8/4/2010
Subject: Review of Region 5 Data for R06 Deep H2O Horizon
From: David Schroeder *DS.*
Region 5 Chicago Regional Laboratory
To: Region 6, US EPA
536 S. Clark St
Chicago, IL 60605

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: R06 Deep H2O Horizon

_____/_____/_____
Data Management Coordinator and Date Received

Date Transmitted: ____/____/____

Analyses included in this report:

RAM-DOSS



Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA
536 S. Clark St
Chicago IL, 60605

Project: R06 Deep H2O Horizon
Project Number: T0001-100405-20100728-004
Project Manager: Kristie Warr

Reported:
Aug-04-10 11:01

ANALYSIS CASE NARRATIVE
Analyst: David Schroeder (312) 353-3100

General Information

Ten samples were received by the Chicago Regional Laboratory for dioctyl sulfosuccinate (DOSS) analysis July 30, 2010. Matrix Spike and Matrix Spike Duplicate analysis were performed for each sample set. The samples were received at or less than 6°C.

Sample Analysis and Results

Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Region 5 Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS detection verification level (6 ppb) or the reporting level (20 ppb).

Many of the samples were observed with a notable yellow color.

The 1008002 supporting data are stored with 1008001.

Quality Control

B100758-BSD1 DOSS and DOSS-D34 relative percent difference (31%) was greater than the 30% quality control limit. The matrix DOSS and DOSS-D34 spike relative percent differences were within the quality control limits.

All quality control criteria not mentioned met acceptance limits stated in the method.



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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T001-1001-100728-SW-1	1008001-01	Water	Jul-28-10 10:30	Jul-30-10 14:00
T001-1002-100728-SW-1	1008001-02	Water	Jul-28-10 11:15	Jul-30-10 14:00
T001-1002-100728-SW-2	1008001-03	Water	Jul-28-10 11:15	Jul-30-10 14:00
T001-1003-100728-SW-1	1008001-04	Water	Jul-28-10 12:30	Jul-30-10 14:00
T001-2414-100728-SW-1	1008001-05	Water	Jul-28-10 09:30	Jul-30-10 14:00



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Analysis by LC MS MS

US EPA Region 5 Chicago Regional Laboratory

T001-1001-100728-SW-1 (1008001-01) Water Sampled: Jul-28-10 10:30 Received: Jul-30-10 14:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diocetyl sulfosuccinate	U	U		20.0	ug/L	1	B100801	Jul-30-10	Jul-30-10

Surrogate: DOSS-D34 164 94.8 % 50-150 " " "

T001-1002-100728-SW-1 (1008001-02) Water Sampled: Jul-28-10 11:15 Received: Jul-30-10 14:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diocetyl sulfosuccinate	U	U		20.0	ug/L	1	B100801	Jul-30-10	Jul-30-10

Surrogate: DOSS-D34 174 100 % 50-150 " " "


T001-1002-100728-SW-2 (1008001-03) Water Sampled: Jul-28-10 11:15 Received: Jul-30-10 14:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diocetyl sulfosuccinate	U	U		20.0	ug/L	1	B100801	Jul-30-10	Jul-30-10

Surrogate: DOSS-D34 165 96.2 % 50-150 " " "

T001-1003-100728-SW-1 (1008001-04) Water Sampled: Jul-28-10 12:30 Received: Jul-30-10 14:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diocetyl sulfosuccinate	U	U		20.0	ug/L	1	B100801	Jul-30-10	Jul-30-10


David Schroeder, Chemist



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T001-1003-100728-SW-1 (1008001-04) Water Sampled: Jul-28-10 12:30 Received: Jul-30-10 14:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: DOSS-D34	181			107 %		50-150	B100801	Jul-30-10	Jul-30-10

T001-2414-100728-SW-1 (1008001-05) Water Sampled: Jul-28-10 09:30 Received: Jul-30-10 14:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100801	Jul-30-10	Jul-30-10

Surrogate: DOSS-D34 160 92.2 % 50-150 " " "

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Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B100801 - *** DEFAULT PREP ***

Blank (B100801-BLK1)

Prepared & Analyzed: Jul-30-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L						

Surrogate: DOSS-D34 240 " 203.1 118 50-150

LCS (B100801-BS1)

Prepared & Analyzed: Jul-30-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	168			20.0	ug/L	210.7		79.6	50-150		

Surrogate: DOSS-D34 166 " 210.6 78.8 50-150

LCS Dup (B100801-BSD1)

Prepared & Analyzed: Jul-30-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	230			20.0	ug/L	200.2		115	50-150	31.2	30

Surrogate: DOSS-D34 254 " 200.1 127 50-150



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Batch B100801 - *** DEFAULT PREP ***

Duplicate (B100801-DUP1)		Source: 1008001-01			Prepared & Analyzed: Jul-30-10						
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	U	U		20.0	ug/L		U				200

Surrogate: DOSS-D34 163 " 171.8 94.6 50-150

Duplicate (B100801-DUP2)		Source: 1008002-04			Prepared & Analyzed: Jul-30-10						
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	U	U		20.0	ug/L		U				200

Surrogate: DOSS-D34 125 " 178.7 69.9 50-150

Matrix Spike (B100801-MS1)		Source: 1008001-01			Prepared & Analyzed: Jul-30-10						
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
diethyl sulfosuccinate	147			20.0	ug/L	173.3	U	84.7	50-150		

Surrogate: DOSS-D34 137 " 173.2 79.1 50-150

Matrix Spike (B100801-MS2) Source: 1008001-04 Prepared & Analyzed: Jul-30-10



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Batch B100801 - *** DEFAULT PREP ***

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	114			20.0	ug/L	182.0	U	62.4	50-150		
Surrogate: DOSS-D34	115				"	181.9		63.0	50-150		

Matrix Spike Dup (B100801-MSD1) Source: 1008001-01 Prepared & Analyzed: Jul-30-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	143			20.0	ug/L	171.8	U	83.2	50-150	2.62	30
Surrogate: DOSS-D34	137				"	171.8		79.9	50-150		

Matrix Spike Dup (B100801-MSD2) Source: 1008001-04 Prepared & Analyzed: Jul-30-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	121			20.0	ug/L	181.2	U	66.6	50-150	5.97	30
Surrogate: DOSS-D34	120				"	181.1		66.2	50-150		



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Notes and Definitions

U Not Detected
NR Not Reported